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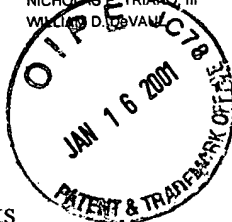
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Assistant Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Patent Application No.: 09/656,915
*METHODS AND COMPOSITIONS FOR MODULATING AXONAL
OUTGROWTH OF CENTRAL NERVOUS SYSTEM NEURONS*
Inventor: Larry I. Benowitz
Filed: September 7, 2000
Our Ref. No.: CMZ-129

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. PTO Form 1449;
3. Full copies of references cited in PTO Form 1449; and
4. A Return Postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

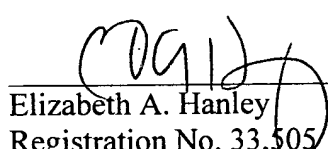
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January 11, 2001

Date

Elizabeth A. Hanley, Reg. No. 33,505

Respectfully submitted,
LAHIVE & COCKFIELD, LLP


Elizabeth A. Hanley
Registration No. 33,505
Attorney for Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

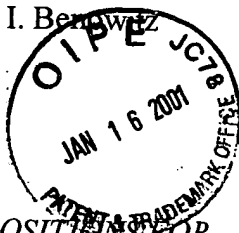
In re the application of: Larry I. Benowitz

Serial No.: 09/656,915

Filed: September 7, 2000

For: *METHODS AND COMPOSITIONS FOR
MODULATING AXONAL OUTGROWTH OF
CENTRAL NERVOUS SYSTEM NEURONS*

Attorney Docket No.: CMZ-129



Group Art Unit:

Examiner:

Assistant Commissioner for Patents
Washington, D.C. 20231

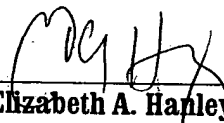
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By:


Elizabeth A. Hanley
Registration No. 33,505
Attorney for Applicant

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

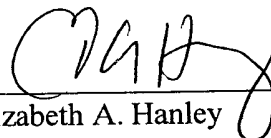
Applicant and his attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A full copy of each cited publication is enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other

relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicant understands that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR § 1.17(p) to our Deposit Order Account No. 12-0080.

Respectfully submitted,
LAHIVE & COCKFIELD, LLP


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Date: January 11, 2001

EAH/MCL/mlh
Enclosures

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO CMZ-129	SERIAL NO. 09/656,915
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Larry I. Benowitz	
		FILING DATE September 7, 2000	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
A1	4,883,666	11/1989	Sabel et al.	424	422	
A2	5,187,162	2/1993	Marangos et al.	514	46	
A3	5,250,414	10/1993	Schwab et al.	435	7.72	
A4	5,447,939	9/1995	Glasky et al.	514	310	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
A5 WO 94/00132	1/1994	PCT			Abstr.
A6 WO 97/03652	2/1997	PCT			

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

A7	Benowitz, L.I. et al. (1997) "Inosine stimulates axonal regeneration from goldfish retinal ganglion" <i>Dept. of Neurosci. Abstracts</i> 23 (1-2)
A8	Bold, J.M. et al. (1985) "Central Effects Of Nicotinamide and Inosine Which Are Not Mediated Through Benzodiazepine Receptors" <i>Br. J. Pharmac.</i> 84:689-696
A9	Braumann, T. et al. (1986) "Fate of Cyclic Nucleotides in PC12 Cell Cultures: Uptake, Metabolism, and Effects of Metabolites On Nerve Growth Factor-Induced Neurite Outgrowth" <i>J. Neurochem.</i> 47(3):912-919
A10	Christjanson, L.J. et al. (1993) "Stimulation Of Astrocyte Proliferation By Purine And Pyrimidine Nucleotides And Nucleosides" <i>GLIA</i> 7:176-182
A11	Genbank Accession No. AF083420 for Homo sapiens brain-specific STE20-like protein kinase 3 (STK3) mRNA, completed cds
A12	Greene, L.A. et al. (1990) "Purine Analogs Inhibit Nerve Growth Factor-Promoted Neurite Outgrowth By Sympathetic And Sensory Neurons" <i>J. Neuroscience</i> 10(5):1479-1485
A13	Gysbers, John W., et al. (1992) "Guanosine enhances NGF-stimulated neurite outgrowth in PC12 cells" <i>NeuroReport</i> 3(11):997-1000
A14	Gysbers, John W., et al. (1996) "GTP and Guanosine Synergistically Enhance NGF-Induced Neurite Outgrowth From PC12 Cells" <i>Int. J. Devl Neuroscience</i> 14(1):19-34
A15	Hayashi, E. et al. (1978) "Effects Of Purine Compounds On Cholinergic Nerves, Specificity Of Adenosine and Related Compounds On Acetylcholine Release In Electrically Stimulated Guinea Pig Ileum" <i>Eur. J. Pharmacol.</i> 48:297-307
A16	Huffaker, T. et al. (1984) "Adenosine Inhibits Cell Division and Promotes Neurite Extension in PC12 Cells" <i>J. Cellular Physiol.</i> 120:188-196
A17	Juhász-Nagy, A. and D.M. Aviado (1977) "Inosine As A Cardiotonic Agent That Reverses Adrenergic Beta Blockade" <i>J. Pharmacol. & Exper. Therapeutics</i> 202(3):683-695
A18	Matz, H. and L. Hertz (1989) "Adenosine Metabolism In Neurons And Astrocytes In Primary Cultures" <i>J. Neurosci. Res.</i> 24:260-267
A19	Nagasawa, H. and K. Kogure (1991) "Alterations of [³ H]inositol 1,4,5-triphosphate Binding in the Postischemic Rat Brain" <i>Neuroscience Letters</i> 133:129-132
Examiner _____ Date Considered _____	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)			
	B1		Rathbone, M.P. et al. (1992) "Extracellular Purine Nucleosides Stimulate Cell Division and Morphogenesis: Pathological and Physiological Implications" <i>Medical Hypotheses</i> 37:232-240
	B2		Rolls, E.T. et al. (1996) "Responses Of Neurons In The Primate Taste Cortex To The Glutamate Ion And To Inosine 5'-Monophosphate" <i>Physiol. & Behav.</i> 59(4/5):991-1000
	B3		Satoh, T. et al. (1987) "Induction of Neurite Formation in PC12 Cells By Microinjection of Proto-Oncogenic Ha-ras Protein Preincubated With Guanosine-5'-O-(3-Thiotriphosphate)" <i>Mol. Cell Biol.</i> 7(12):4553-4556
	B4		Schwalb, J.M. et al. (1996) "Optic Nerve Glia Secrete A Low-Molecular-Weight Factor That Stimulates Retinal Ganglion Cells To Regenerate Axons In Goldfish" <i>Neurosci.</i> 72(4):901-910
	B5		Schwalb, J.M. et al. (1995) "Two Factors Secreted by the Goldfish Optic Nerve Induce Retinal Ganglion Cells to Regenerate Axons in Culture" <i>J. Neurosci.</i> 15(8):5514-5525
	B6		Standaert, F.G. et al. (1976) "Effects of Cyclic Nucleotides On Mammalian Motor Nerve Terminals" <i>J. Pharmacol. & Exper. Therapeutics</i> 199(3):544-552
	B7		Svensson, B. et al. (1993) "Detection of a Purine Analogue-Sensitive Kinase In Frog Sciatic Nerves-Possible Involvement In Nerve Regeneration" <i>Eur. J. Neurosci.</i> 5:1017-1023
	B8		Volonté, C. et al. (1989) "Differential Inhibition of Nerve Growth Factor Responses By Purine Analogues: Correlation With Inhibition Of A Nerve Growth Factor-Activated Protein Kinase" <i>J. Cell Biol.</i> 109:2395-2403
	B9		Wakade, T.D. et al. (1995) "Adenosine-induced Apoptosis In Chick Embryonic Sympathetic Neurons: A New Physiological Role For Adenosine" <i>J. Physiol.</i> 488(1):123-138
	B10		Zarbin, M.A. et al. (1990) "Anterograde Transport Of Opioid Receptors In Rat Vagus Nerves And Dorsal Roots Of Spinal Nerves: Pharmacology and Sensitivity To Sodium and Guanine Nucleotides" <i>Exp. Brain Res.</i> 81:267-278
	B11		Zhou, Tian-Hua et al. (2000) "Identification of a Human Brain-specific Isoform of Mammalian STE20-like Kinase 3 That Is Regulated by cAMP-dependent Protein Kinase" <i>J. Biol. Chem.</i> 275(4):2513-19
	B12		Zurn, A.D. and K.Q. Doe (1988) "Purine Metabolite Inosine Is An Adrenergic Neurotrophic Substance For Cultured Chicken Sympathetic Neurons" <i>Proc. Natl. Acad. Sci. USA</i> 85:8301-8305
Examiner			Date Considered
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